PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

Glaxos de maine

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Corp veto 12 NOTIFICATION OF TRANSMITTAL OF Received A TOTAL TERNATIONAL PRELIMINARY **EXAMINATION REPORT** 12 MAR 2004

(PCT Rule 71.1)

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10.03.2004

Applicant's or agent's file reference P14748

International filing date (day/month/year)

Priority date (day/month/year)

05.02.2003

08.02.2002

IMPORTANT NOTIFICATION

Applicant

GLAXO GROUP LIMITED

International application No.

PCT/GB 03/00501

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

European Patent Office

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Authorized Officer

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PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference PI4748				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No. PCT/GB 03/00501				International filing date 05.02.2003	(day/mon	th/year)	Priority date (day/month/year) 08.02.2002
			ent Classification (IPC) or bo C07D401/04	oth national classification	and IPC		
	licant AXO (GRO	UP LIMITED	·			
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 						
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.						
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
	These annexes consist of a total of sheets.						
3.	This	repo	rt contains indications re	lating to the following it	ems:		
	1	\boxtimes	Basis of the opinion	•			
	П		Priority				
	H	\boxtimes	Non-establishment of o	pinion with regard to novelty, inventive step and industrial applicability			
•	IV Lack of unity of invention				•		
	٧	Ø	Reasoned statement u citations and explanation	nder Rule 66.2(a)(ii) w ons supporting such st	ith regare atement	d to novelty, in	ventive step or industrial applicability;
	VI		Certain documents cite	ed			
	VII		Certain defects in the i	nternational application)		•
	VIII Certain observations on the international application						
Date	Date of submission of the demand			Date of	completion of th	is report	
05.0	05.08.2003			10.03.	2004	•	
Nam prelii	Name and mailing address of the international preliminary examining authority:				Authoria	zed Officer	Sept 15 COM S PORTOR OF THE PARTY OF THE PAR
European Patent Office D-80298 Munich					Usuell	i A	
Tel. +49 89 2399 - 0 Tx: 523656 epmu d				66 epmu d		•	2399-7366
Fax: +49 89 2399 - 4465 Telephone No. +49 89 2399-7366							



International application No.

PCT/GB 03/00501

l.	Basis	of th	ne re	port
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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

		Description, Pages					
		1-36		as originally filed			
		Cla	ims, Numbers				
		1-1	8	as originally filed			
	2.	Wit lang	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.				
		The	ese elements were av	ailable or furnished to this Authority in the following language: , which is:			
			the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).			
			the language of pub	lication of the international application (under Rule 48.3(b)).			
				anstation furnished for the purposes of international preliminary examination (under 3).			
	3.	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
contained in the international application in written form.			rnational application in written form.				
 filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. 			e international application in computer readable form.				
			ntly to this Authority in written form.				
			furnished subsequer	ntly to this Authority in computer readable form.			
 The statement that the subsequently furnished written sequence listing does not go beyong in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the visiting has been furnished. 			he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.				
			The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.			
	4. The amendments have resulted in the cancellation of:						
			the description,	pages:			
			the claims,	Nos.:			
			the drawings,	sheets:			
	5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).					
			(Any replacement sl report.)	neet containing such amendments must be referred to under item 1 and annexed to this			
	6. Additional observations, if necessary:						

Form PCT/IPEA/409 (January 2004)



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/00501

11.	No	n-establishment of opinion w	ith reg	ard to nove	lty, inventive step and industrial applicability		
 The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- obvious), or to be industrially applicable have not been examined in respect of: 							
☐ the entire international application,							
☑ claims Nos. 15,17(industrial applicability)							
		because:					
	⊠	the said international applicati does not require an internation	on, or nal pre	the said clair liminary exar	ns Nos. 15,17 relate to the following subject matter which mination (specify):		
see separate sheet							
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
		no international search report has been established for the said claims Nos.					
2.	or a	meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative structions:					
		the written form has not been furnished or does not comply with the Standard.					
		the computer readable form ha	as not	been furnish	ed or does not comply with the Standard.		
٧.	. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
۱.	Stat	Statement					
	Nov	Novelty (N)		Claims Claims	1-18		
	Inventive step (IS)		Yes: No:	Claims Claims	1-18		
	Indi	ustrial applicability (IA)	Yes: No:	Claims Claims	1-14,16,18		
2.	Cita	itions and explanations					

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 15 and 17 relate to subject matter considered by this Authority to be covered by the provisions of Rule 67.1 (iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject matter of these claims, cf. Article 34(4)(a)(i) PCT.

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1- Reference is made to the following documents:

d1: WO 97 16440 A d2: WO 01 25219 A

2- Novelty

Present compounds of formula (I) are regarded as novel.

The general formula (I) of d1 encompasses, at least in part, present formula (I) when R2 is Ar2-C1-6alkyl, X is NR3, R1 is Ar and m,n and p are 1. However, d1 does not disclose compounds wherein the piperidine ring is substituted by a (substituted) phenyl group (e.g. R1=aryl) or compounds containing a moiety corresponding to the present chain -NR1C(R2R3)-. Thus, on account of these two features, the compounds of formula (I) generically included in the formula (I) of d1 can be regarded as a novel selection.

Present compounds are novel in respect to the compounds of d2 at least on account of the piperidine ring.

Thus, the requirements of Art.33.2 PCT are satisfied since all the claims relate to the compounds of formula (i).

3- Inventive step

3.1- The applicant seems to have set himself the task of providing novel tachykinins antagonists to be used for the treatment of various conditions such as CNS disorders, depressive states and anxiety.

Documents d1 and d2 relate to compounds having the same use of present compounds. Considering the chemical structures of the compounds disclosed, it is

considered that d1 represent the closest state of the art.

For the purpose of assessing the inventive activity during the international preliminary examination, it is accepted that present compounds possess the alleged activity, i.e. they act as antagonists of the tachykinin receptors.

Accordingly, the technical problem may be taken as the provision of alternative antagonists of tachykinins.

3.2- The solution proposed by the present invention, represented by the compounds of formula (I), does not appear to involve any inventive activity.

As already stated above, d1 discloses a general class of tachykinins antagonists which encompasses, at least in part, present compounds of formula (I). The mere fact of selecting inside a group of compounds having a certain activity, a subclass of molecules and then observing that the molecules of said subclass possess the same activity of the compounds of the first group cannot be regarded as an activity involving an inventive skill.

Accordingly, present claims 1 to 18 do not meet the requirements of Art.33.3 PCT.